

further when with Green, and further when with Blew, and go yet further off when illuminated with Indigo, and furthest when with deep Violet. Which plainly shews, that the Lights of several Colours are more and more Refrangible one than another, in this order of their Colours, Red, Orange, Yellow, Green, Blew, Indigo, deep Violet; and so proves as well the first Proposition as the second.

*Fig. 17.* I caused also the coloured Spectrums P T and M N made in a dark Chamber by the Refractions of two Prisms to lye in a right Line end to end, as was described above in the fifth Experiment, and viewing them through a third Prism held Parallel to their length, they appeared no longer in a right Line, but became broken from one another, as they are represented at *pt* and *mn*, the violet end *m* of the Spectrum *mn* being by a greater Refraction translated further from its former place M T than the red end *t* of the other Spectrum *pt*.

*Fig. 20.* I further caused those two Spectrums P T and M N to become co-incident in an inverted order of their Colours, the red end of each falling on the violet end of the other, as they are represented in the oblong Figure P T M N; and then viewing them through a Prism D H held Parallel to their length, they appeared not co-incident as when viewed with the naked Eye, but in the form of two distinct Spectrums *pt* and *mn* crossing one another in the middle after the manner of the letter X. Which shews that the red of the one Spectrum and violet of the other, which were co-incident at P N and M T, being parted from one another by a greater Refraction of the violet to *p* and *m* than of the red to *n* and *t*, do differ in degrees of Refrangibility.

I illuminated also a little circular piece of white Paper all over with the Lights of both Prisms intermixed, and when

when it was illuminated with deep violet of the Colours to appear first at a less distance from the third Prism; and the Image thereof became equal Refraction of the light parted into two different parts, whereof the violet end suffered the greatest Refraction at the Window where the Prism was taken away, the violet end of the Prism was taken away, these two Images were parted into two Prisms which appeared, but were parted into two Prisms made in the third Experiment. This appeared in the Prisms at the Window on the Paper, was the Colours in this order, low, Orange, Red, Prism, the violet end in changing Colours it was also red they

I placed also two Prisms, the one in the red end of the violet Light of the other, and them an Inch in Distance, so dark that the Experiment of the Light coming from the Prism I viewed through a Prism, be made towards the